```
                    ┌─────────────────────────┐
                    │  ARE SUBNET ADDRESSES   │
                    │  OF DIFFERENT IP SETS   │
                    │       THE SAME?         │
                    └─────────────────────────┘
           YES                              NO
    ┌──────────────────┐          ┌──────────────────┐
    │  DEFAULT TO G711  │          │ DEFAULT TO G729A  │
    │  AS CODEC TYPE    │          │  AS CODEC TYPE    │
    └──────────────────┘          └──────────────────┘

    ┌──────────────────────────────────────────┐
    │  MEASURE LATENCY AND BANDWIDTH            │
    │  OF NETWORK BETWEEN IP SETS               │
    └──────────────────────────────────────────┘

                      ( A )
```

FIG. 1

(A)

EVALUATE LATENCY AND BANDWIDTH

IF LATENCY IS LOW AND BANDWIDTH IS HIGH, THEN USE TABLE 2 AND SELECT A SMALL NUMBER OF VOICE FRAMES PER PACKET

IF LATENCY IS HIGH AND BANDWIDTH IS LOW, THEN USE TABLE 1 AND SELECT A LARGER NUMBER OF FRAMES PER PACKET
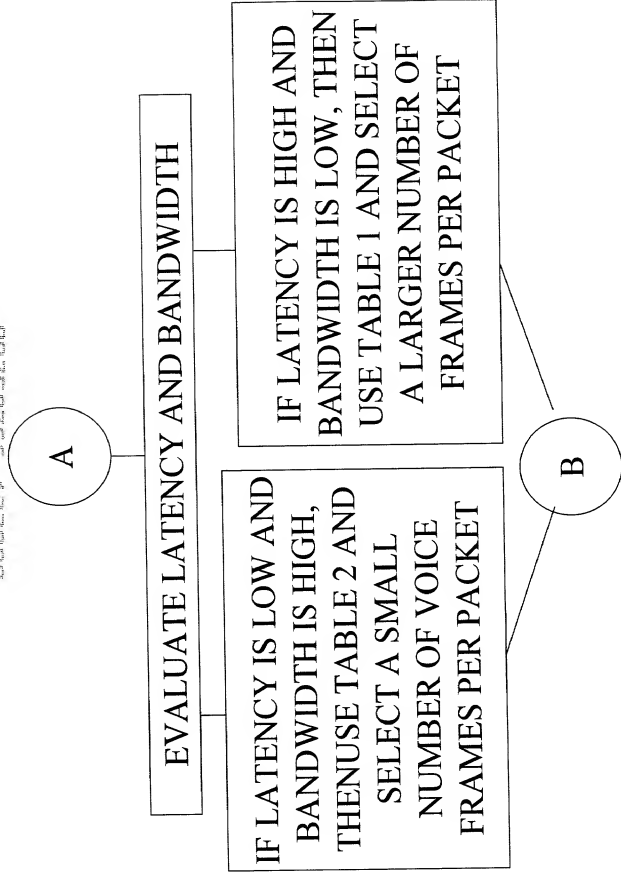
(B)

FIG. 1 (continued)

DETERMINE NO. OF ROUTER HOPS BETWEEN IP SETS

(B)

IF THE NUMBER OF HOPS IS LARGE AND THE BANDWIDTH IS SMALL, SELECT A LARGE NUMBER OF FRAMES PER PACKET FROM TABLE 1.

IF THE NUMBER OF HOPS IS SMALL AND THE BANDWIDTH IS HIGH, THEN USE A SMALL NUMBER OF FRAMES PER PACKET FROM TABLE 2.

FIG. 1 (continued)

INITIALIZATION OF DEFAULT
PARAMETERS FOR VOIP DEVICES TO
OPTIMIZE THEIR CONFIGURATION

NETWORK PERFORMANCE
MONITORING -- RE-OPTIMIZE
THE VOIP CONFIGURATION

DYNAMIC INTERVENTION DURING
ACTIVE SESSION OF VOIP DEVICES
TO TAKE CORRECTIVE MEASURES

FIG. 2

FIG. 3

Call Server | Terminal Proxy Server | Router

Set A

Internet

WAN

Wired Soft VoIP Client

Set C

Set B

Wired VoIP Client

Set D & D Wireless VoIP Clients

LAN